

## A Novel Radar Signal Recognition Method Based On Deep Learning

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### A Novel Radar Signal Recognition

In this paper, a novel recognition model which is called RSRDRBM (radar signal recognition based on deep restricted boltzmann machine) is proposed to solve the radar signal recognition problem. RSRDRBM is based on deep learning method, and composed of multiple restricted boltzmann machine. This neural network model could extract the feature in

### A Novel Radar Signal Recognition Method based on Deep Learning

A novel radar signal recognition method based on a deep restricted Boltzmann machine Radar signal recognition is of great importance in the field of electronic intelligence reconnaissance.

### A novel radar signal recognition method based on a deep ...

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### A novel radar signal recognition method based on a deep ...

recognition. In this paper, a novel recognition model which is called RSRDRBM (radar signal recognition based on deep restricted Boltzmann machine) is proposed to solve the radar signal recognition problem. RSRDRBM is based on deep learning method, and composed of multiple restricted Boltzmann machines.

### A NOVEL RADAR SIGNAL RECOGNITION METHOD BASED ON A DEEP ...

Radar emitter signal recognition is one of the key procedures in signal processing of Electronic Intelligence. To enhance the ability of online recognition to meet the requirement of modern electronic warfare, A novel recognition approach for radar emitter signals based on on-line independent support vector machines is presented in this paper.

### A novel recognition approach for radar emitter signals ...

In this study, a novel network combined a shallow convolution neural network (CNN), long short-term memory (LSTM) network and deep neural network (DNN) is proposed to recognise six types of radar signals with different signal-to-noise ratio (SNR) levels from  $-14$  to  $20$  dB.

### Intra-pulse modulation radar signal recognition based on ...

Based on mathematical analysis above, we will illustrate a novel radar signal recognition method in subsequent sections. 3. Construction of feature vectors for signals. As is mentioned, AF reveals the energy distribution in time and frequency domain. Therefore, to construct feature vectors, it is intuitive to figure out where energy accumulates ...

### Recognition of radar signals based on AF grids and ...

In this paper, a novel recognition method based on the squeeze-and-excitation networks (SE-Nets) is proposed in order to recognize intra-pulse modulation s Firstly, different signal transforms including time domain, frequency domain and time-frequency domain are used to convert seven different intra-pulse modulation signals into images.

### Intra-pulse modulation radar signal recognition based on ...

one received coded signal and the coded received signal transformed respectively; and is the assumed AWGN noise. is a signal amplitude, and is the instantaneous received signal phase. The signal in-cluding the periodic coded signal has been emitted a sin-gle intercepted radar signal. To draw the CWD picture, a method discovered by

### Radar Signal Recognition by CWD Picture Features

To solve the problem of the low recognition rate of the existing methods at low signal-to-noise ratio (SNR), we propose a novel method of radar signal waveform recognition. In this method, we extract the time-frequency images (TFIs) of radar signals through Cohen class time frequency distribution.

### Radar Signal Waveform Recognition Based on Convolutional ...

Low Power Embedded Gesture Recognition Using Novel Short-Range Radar Sensors Michele Magno, Emanuel Eggimann, Jonas Erb, Philipp Mayer, Luca Benini Integrated Systems Laboratory, ETH Zurich Gesture Recognition Based on Short-Range Radar Increasing research on radar for gesture recognition1,2,3,4 Google developed micro-radar for gesture recognition

### Low Power Embedded Gesture Recognition Using Novel Short ...

A Novel Human Respiration Pattern Recognition Using Signals of Ultra-Wideband Radar Sensor Seong-Hoon Kim , 1 Zong Woo Geem , 2 and Gi-Tae Han 1, \* Seong-Hoon Kim

### A Novel Human Respiration Pattern Recognition Using ...

Low Power Embedded Gesture Recognition Using Novel Short-Range Radar Sensors. A 'read' is counted each time someone views a publication summary (such as the title, abstract, and list of authors ...

### (PDF) Low Power Embedded Gesture Recognition Using Novel ...

Radar emitter recognition is an important part of Radar systems, to get the type of radar emitter after selection and feature extraction. Due to the proliferation of environmental electromagnetic sources and noise, radar receivers receive signals amid pollution and interference.

### A Novel Radar Emitters Scheme Recognition Algorithm using ...

We develop a novel radar-based human motion recognition technique that exploits the temporal sequentiality of human motions. The stacked recurrent neural network (RNN) with long short-term memory (LSTM) units is employed to extract sequential features for automatic motion classification.

### Human motion recognition exploiting radar with stacked ...

The energy of the novel radar sensor speech is distributed in both low and high frequency ranges. This could be attributed to the combined effects of a  $35.5$  GHz operating frequency and a superheterodyne receiver, which improves the detection sensitivity of the radar sensor for small vibrations caused by high frequency speech.

### A Novel Radar Sensor for the Non-Contact Detection of ...

In this paper, a novel HRRP recognition method is proposed to classify unlabeled samples automatically where the number of categories is unknown. Firstly, with the preprocessing of HRRPs, we adopt principal component analysis (PCA) for dimensionality reduction of data.

### **A Novel Radar HRRP Recognition Method with Accelerated T ...**

Abstract: A novel low probability of intercept (LPI) radar signal recognition method based on stacked autoencoder combined with support vector machine (SVM) is proposed in this paper. The method firstly transforms the LPI radar signal to time-frequency (T-F) domain through Choi-Williams Distribution (CWD) to obtain the T-F images of signals.

### **Low Probability of Intercept Radar Signal Recognition by ...**

Therefore, new spectrum sensing schemes and novel signal recognition mechanisms have attracted more and more attention, which pave the way to cognitive radio (CR) . Wireless signal recognition (WSR) has great promise on military and civilian applications [ 4 ], which may include signal reconnaissance and interception, antijamming, and devices identification.

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